



FIG.1

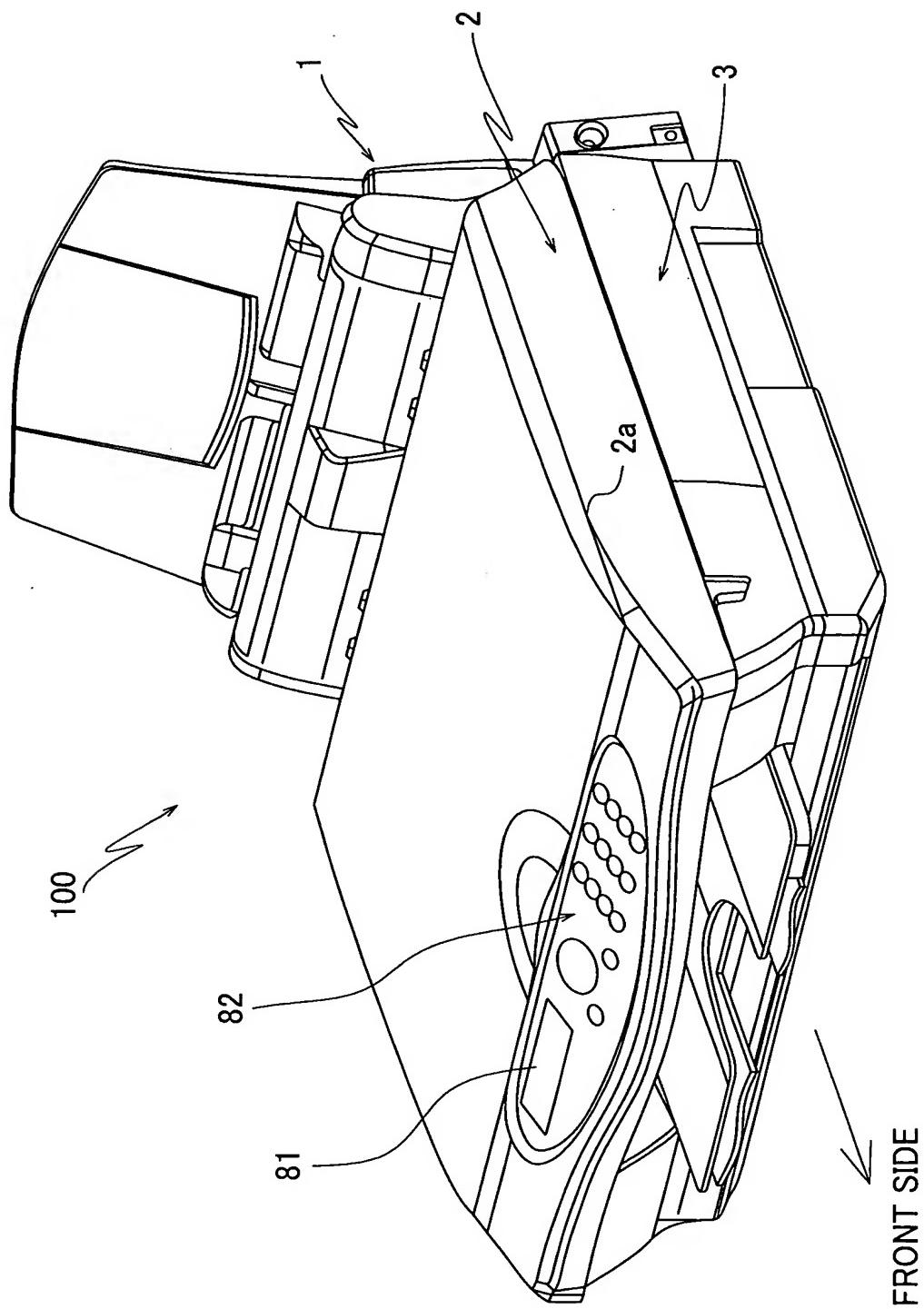




FIG.2

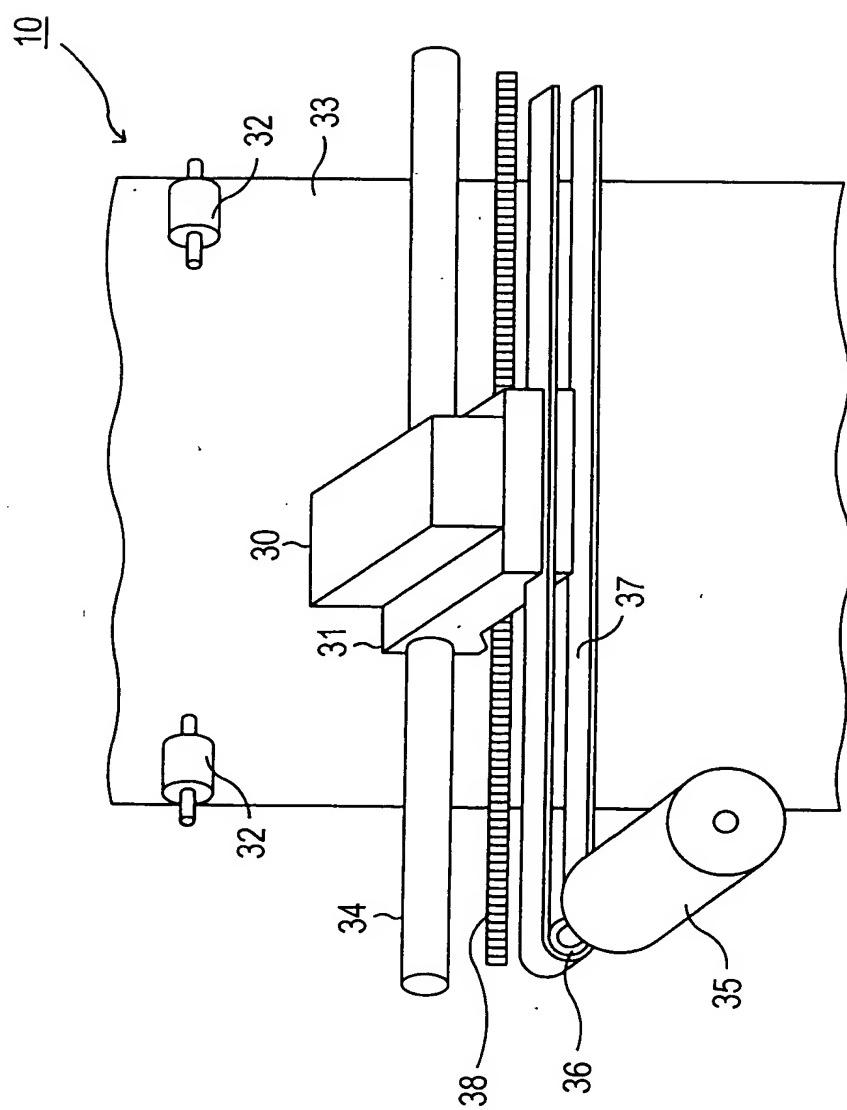
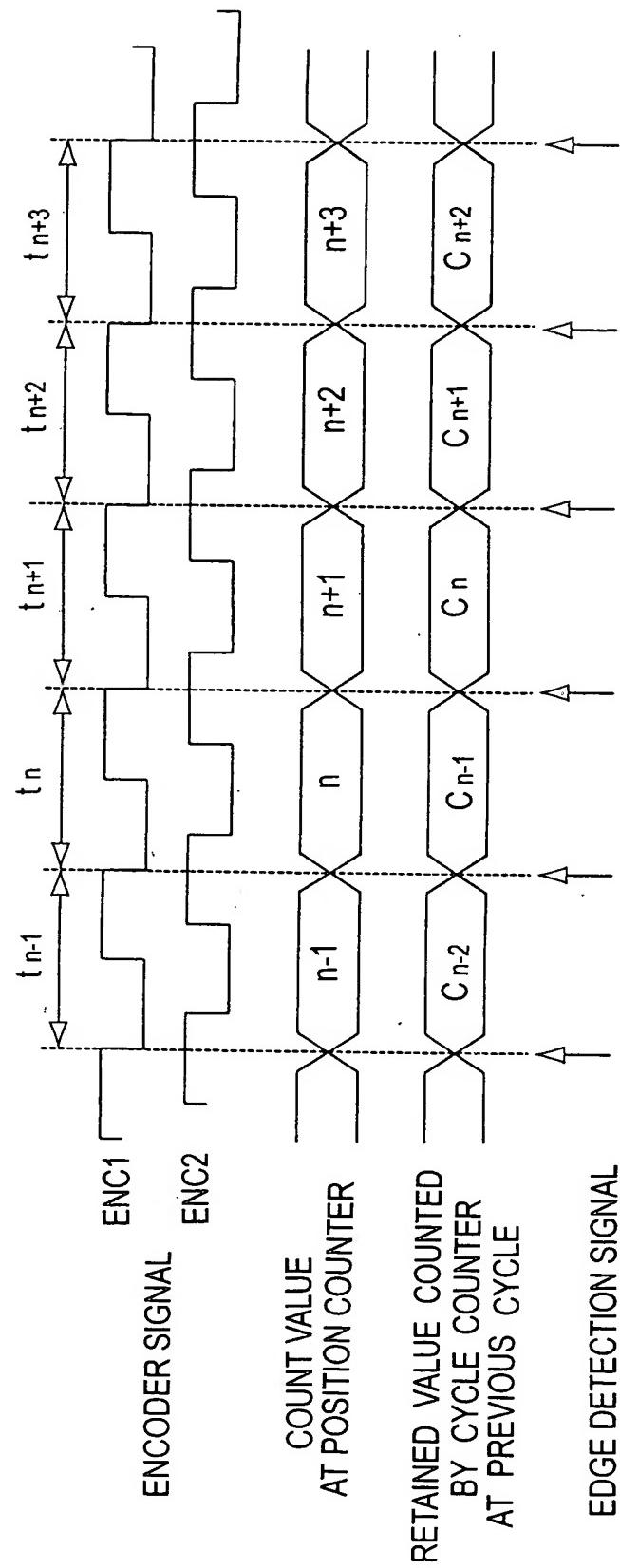




FIG. 3



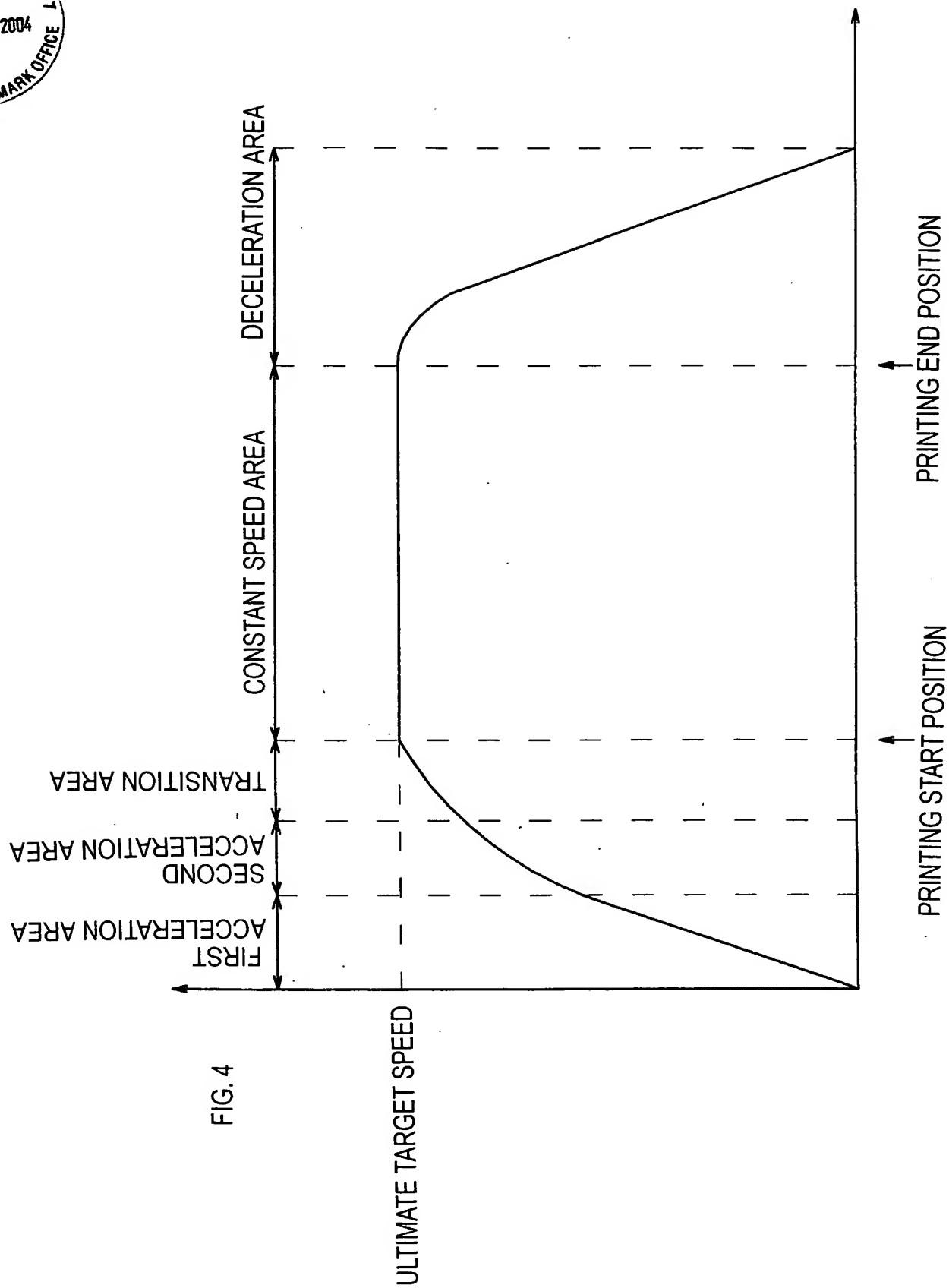
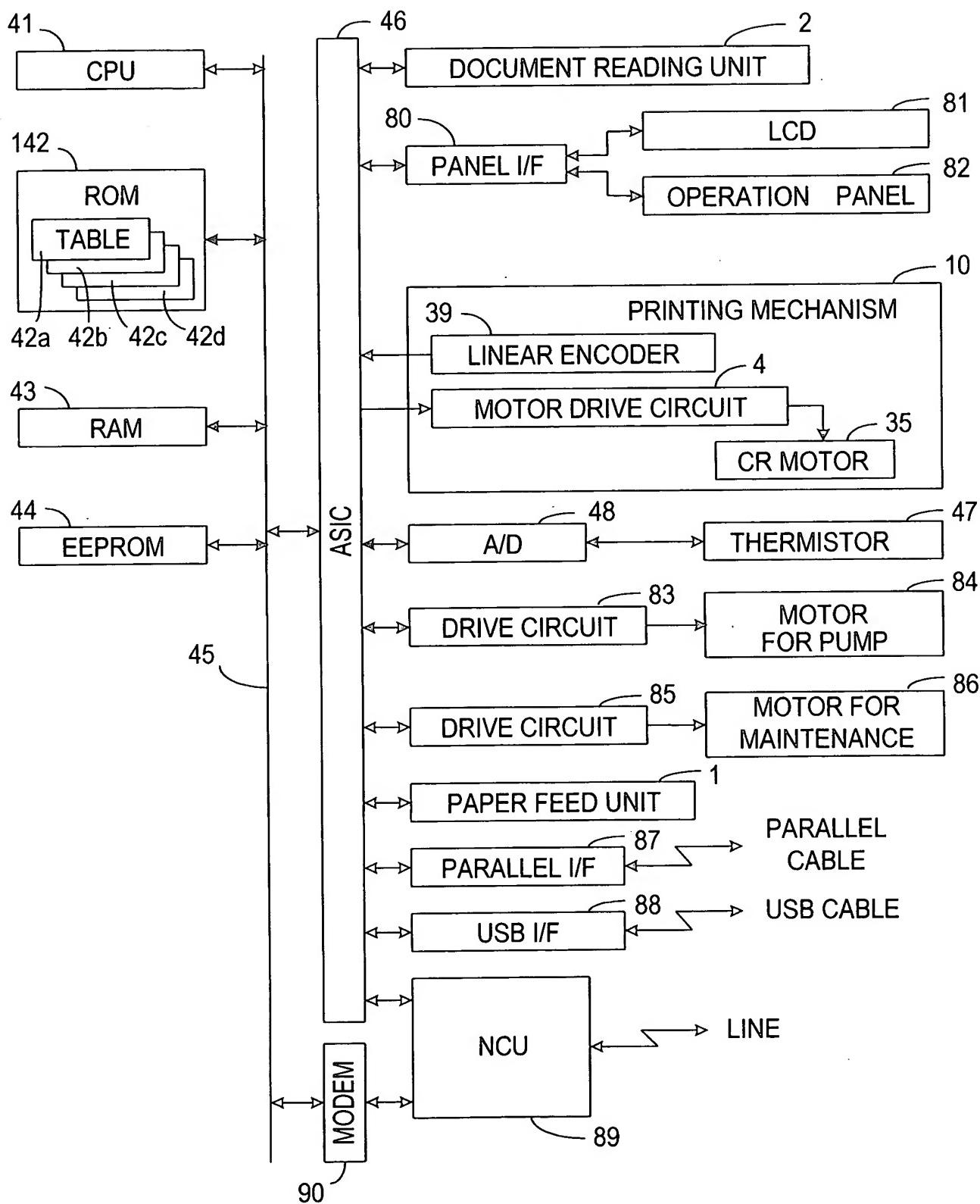


FIG. 4



FIG. 5



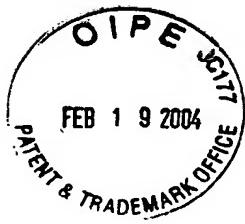


FIG. 6

39

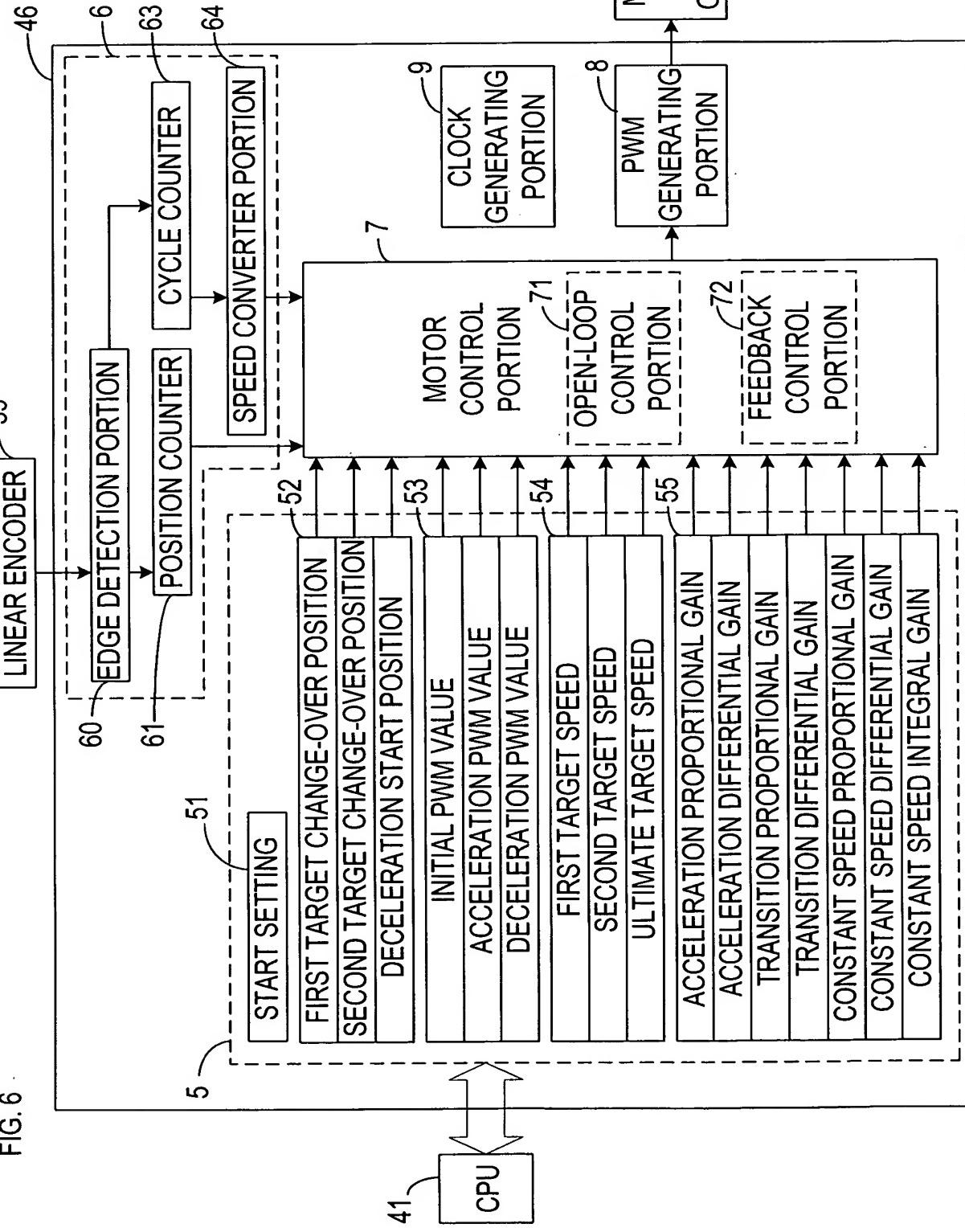
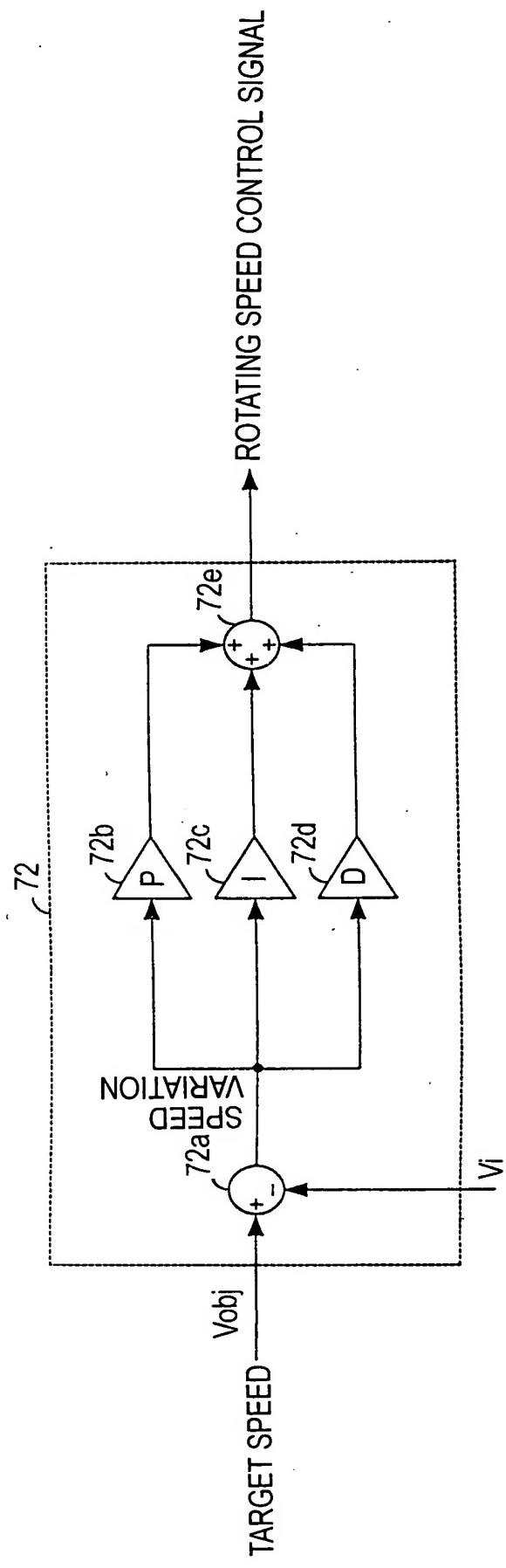




FIG. 7



FROM SPEED CONVERTER PORTION 64



FIG. 8

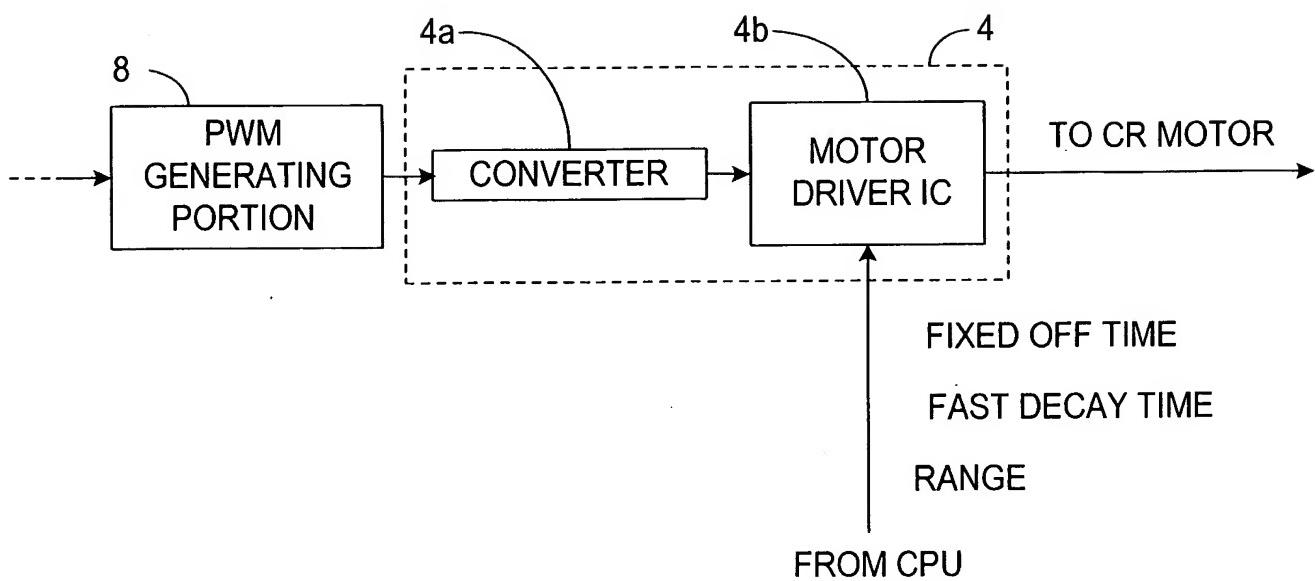




FIG. 9

MODE	30i ps	30i ps	15i ps	15i ps	7.5i ps	
DIRECTION	FWD	REV	FWD	REV	FWD	
INITIAL PWM VALUE						
ACCELERATION PROPORTIONAL GAIN						
ACCELERATION DIFFERENTIAL GAIN						
TRANSITION PROPORTIONAL GAIN						
TRANSITION DIFFERENTIAL GAIN						
CONSTANT SPEED PROPORTIONAL GAIN						
CONSTANT SPEED DIFFERENTIAL GAIN						
CONSTANT SPEED INTEGRAL GAIN						
FIXED OFF TIME						
FAST DECAY TIME						
RANGE						



FIG. 10

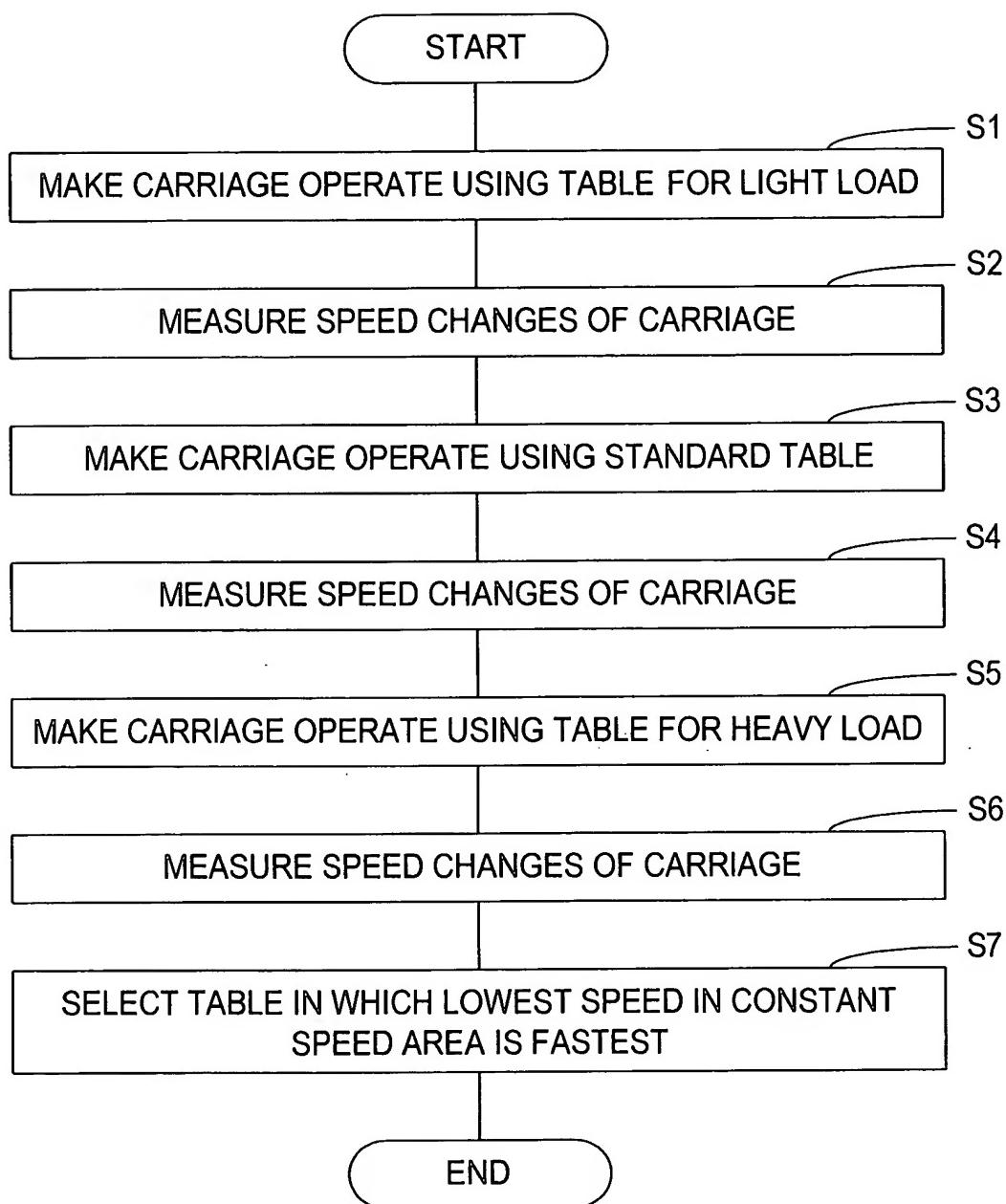




FIG. 11

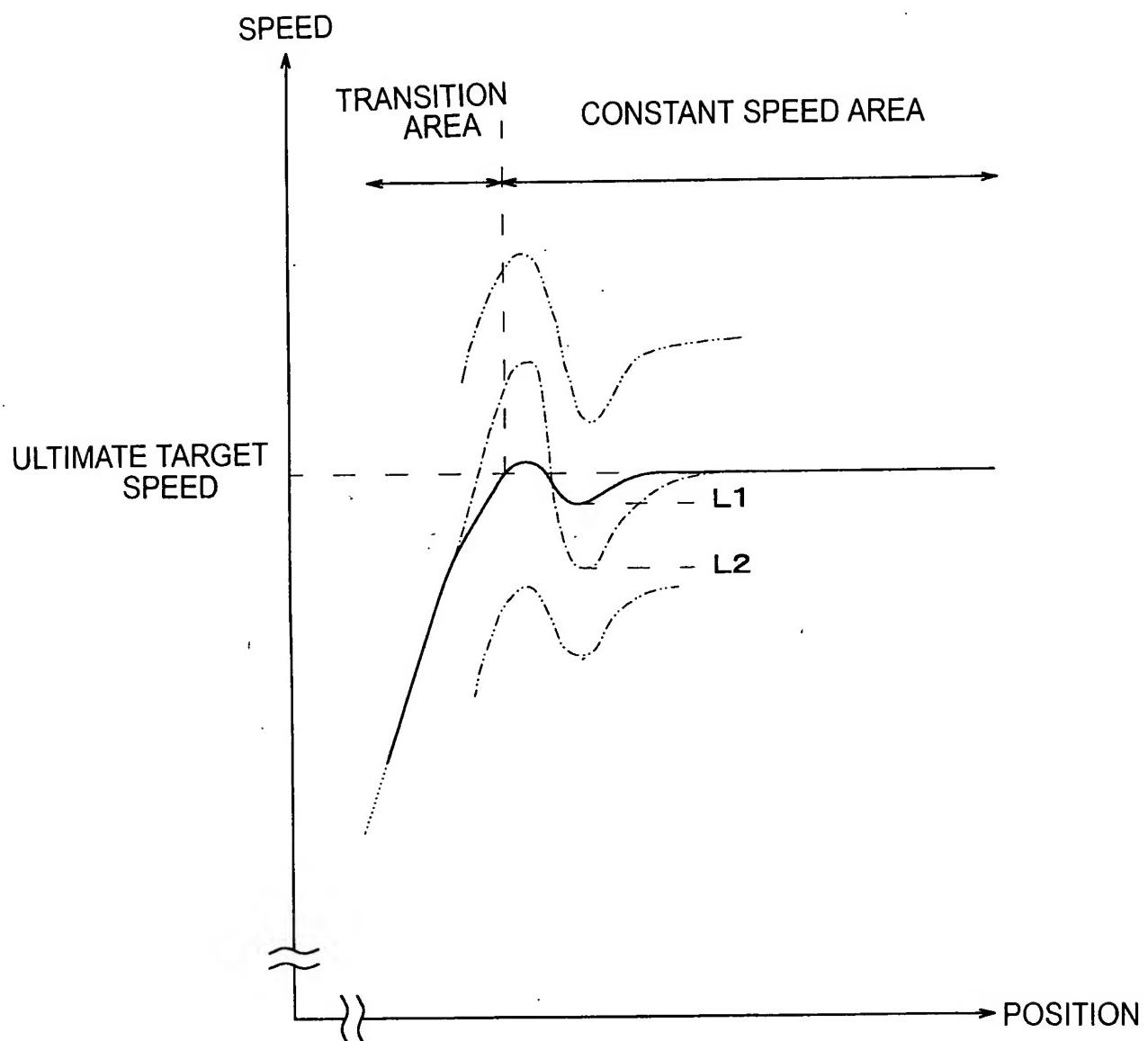




FIG. 12

